CS23C04 PROGRAMMING IN C : 29.10.2026, 'P' Batch

Today programs:

1. Write two different C programs to demonstrate usage of &, * operators and simple pointers. Create two variables "a" and "b". Initialize them by taking user input. Make two pointer variables, "ap" and "bp" pointing to a and b respectively.
   - Swap the addresses of ap and bp.
   - Swap the contents of a and b using ap and bp.

2. Write a C program to find the factorial of a given number using recursive call.
3. Write a C program to print the string in reverse order using pointers.
4. Write a C program to create an array of 10 elements. Ask the user for number of elements to be actually used for operation i.e "n". Initialize only "n" elements by taking user input.
   - Print the "n" array elements in the reverse order.
   - Print the "n" array elements in the reverse order using a separate pointer variable.

Spot Questions:

1. Write a C program to count the number of vowels and consonants in a string using pointers.
2. Write a C program with a recursive function that prints a string of characters in the reverse order.
3. Write a C program to find the sum of digits of a number using recursion.